### **ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18

Stylesheet Version v18.0

Title of Invention Lignocellulose-based anion-adsorbing medium (LAM) and process for making and using same for the selective removal of phosphate and arsenic anionic contaminants from aqueous solutions.

Application Number:

Confirmation Number:

First Named Applicant:

Ju Young Kim

Attorney Docket Number:

KIM-001USP

Art Unit: Examiner:

Search string:

( 1297028 or 3872002 or 3903074 or 3931003 or 4200735 or 4432921 or 4869735

or 4869735 or 5314638 or 5411569 or 5411569 or 5492759 or 5492723 or 5736064 or 5907037 or 6042731 or 6143692 or 6217942 or 6318021 or 6342191 or 6409978

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#### **US Patent Documents**

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
l·c.	1	1297028	1919-03-11	Soraas		530	500
J.C.	2	3872002	2005-03-18	Musgrove	7	7.10	711
Z·c.	3	3903074	1975-09-02	Van Reesema	_	5 36	3/
J.C	4	3931003	1976-01-06	Jorgensen	1	210	669
L.C	5	4200735	1980-04-29	Sano et al.		536	30
K.c.	6	4432921	1984-02-21	Haars et al.	_	264	109
R.a	7	4869735	1989-09-26	Miyazawa et al.	<u></u>	95	/33
	8	4869735	1991 09 03	Chen et al.			
K·c.	9	5314638	1994-05-24	Morine et al.	1	252	184
l.c.	10	5411569	1995-05-02	Hjersted		71	24
		5411569	1995-09-05	Michalowski et			
				<del>-al-</del>			
K.C.	12	5492759	1996-02-20	Eriksson et al.		428	375
8.5	13	5492723	1996-02-20	Sanderson et al.	_	427	244
K:C	14	5736064	1998-04-07	Edamura et al.	~	252	74
la.	15	5907037	1999-05-25	Gujral et al.		536	39
Ļ·c.	16	6042731	2000-03-28	Bonniin		210	679
l'c.	17	6143692	2000-01-07	Sanjay et al.	<u></u>	502	401
L·C.	18	6217942	2001-04-17	Bolle et al.	<u> </u>	427	385.5
1.C	19	6318021	2001-11-20	Whiteley		47	9

I. Cintins

October 29, 2006

从心	20	6342191	2002-01-29	Kepner et al.	)	423	210
X.C.	21	6409978	2002-06-25	Faulkner et al.	)	423	1

## Signature

Examiner Name	Date			
I. Cintins	October 29. 2006			

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**Application Number** 

First Named Inventor

Filing Date

Art Unit

Complete if Known

10/708001

31 January 2004

Ju Young Kim

Substitute for form 1449/PTO

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### **INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Examiner Name** 

			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan
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<u>LO.</u>	1	DT 24 27 425 A1	06-09-1973	Yuken		H
X·c.	2	DT 27 08 974 A1	03-04-1976	Dev Finance Crp		
J.C	3	DD 270 704 A1		Akad Wiss DDR		
X.C	4	DD 286 805 A5	08-11-1989	VEB Funka Kopen		┢
L.C.	5	J5 7019 -98		Ebara Infilco		
2.C	6	JP363023934A	02-01-1988	Toyo Roshi		┢

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

Complete if Known					
Application Number	10/708001				
Filing Date	31 January 2004				
First Named Inventor	Ju Young Kim				
Art Unit					
Examiner Name					
Attorney Docket Number	KIM 001LISD				

U. S. PATENT DOCUMENTS  Examiner   Cite   Document Number   Publication Date   Name of Patentee or   Pages Columns Lines Where								
Initials*	Cite No.1	Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear			
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X.C	7	JO 3114 587 A	05-15-1991	Nishihara		Ħ
·.c.	8	JA 0115543	09-08-1979	Hitachi		ħ
3.0	9_	JA 0084355	07-25-1978	Daido Seiko		t
X·C-	10	JO 3008-495-A	01-16-1991	Kanatsu Giken		t
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Substitu	ite for form 1449/PTO			Complete If Known			
	•			Application Number	10/708001		
INF	ORMATION	DIS	CLOSURE	Filing Date	31 January 2004		
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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
J.C.	11	UNNITHAN et al., Ability of Iron (III)-loaded carboxylated polyacrylamide-grafted sawdust to remove phosphate ions from acqueous solution and fertilizer industry wastewater: adsorption kinetics and isotherm studies. J. Applied Polymer Science, Vol. 84, 2541-2553 (2002).	
J.c.	12	WIGGINTON and LENHART, Using Iron-infused media and stormfilter technology for the removal of dissolved phosphorus from stormwater discharges. Unpublished manuscript.	
l·c.	13	STORMWATER INC. brochure entitled, Storm Filter.	
λ·c.	14	URANO et al., Process development for removal and recovery of phosphorus from wastewater by a new adsorbent. 1. preparation method and adsorption capability of a new adsorbent. Ind. Eng. Chem. Res. 1991, 30:1893-1896.	
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X-C.	20	MYERS et al., Iron oxide sink method for extracting soil phosphorus: paper preparation and use. Soil Sci. Soc. Am. J. 61: 1400-1407 (1997).	

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Substitute for form 1449/PTO			Complete if Known			
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STATEMENT BY APPLICANT		First Named Inventor	Ju Young Kim			
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Sheet 4	of	4	Attorney Docket Number	KIM-001USP		

	<b>.</b>	NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
l·c.	21	URANO et al., Process development for removal and recovery of phosphorus from wastewater by a new adsorbent. 1. preparation method and adsorption capability of a new adsorbent. Ind. Eng. Chem. Res. 1991, 30: 1893-1896.		
J.C.	22	DEAE-DEXTRAN, data file from Amersham Biosciences. df 18-1151-76 AA, 2001-11, pp 1-4.		
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